

Flight Scientist Report
Thursday 09/10/2020 ACTIVATE RF32

Flight Type: Statistical Survey Flight–ZIBUT to southwest point
Flight Route: KLFI-ATLIC-ZIBUT-southwest point and back

Special Notes:

Forecast showed bad weather near airfield so the flight was delayed to a 1300 takeoff to let the convective cells pose less of a problem.

A key feature today was generally cleaner conditions than normal with low aerosol and cloud drop number concentrations.

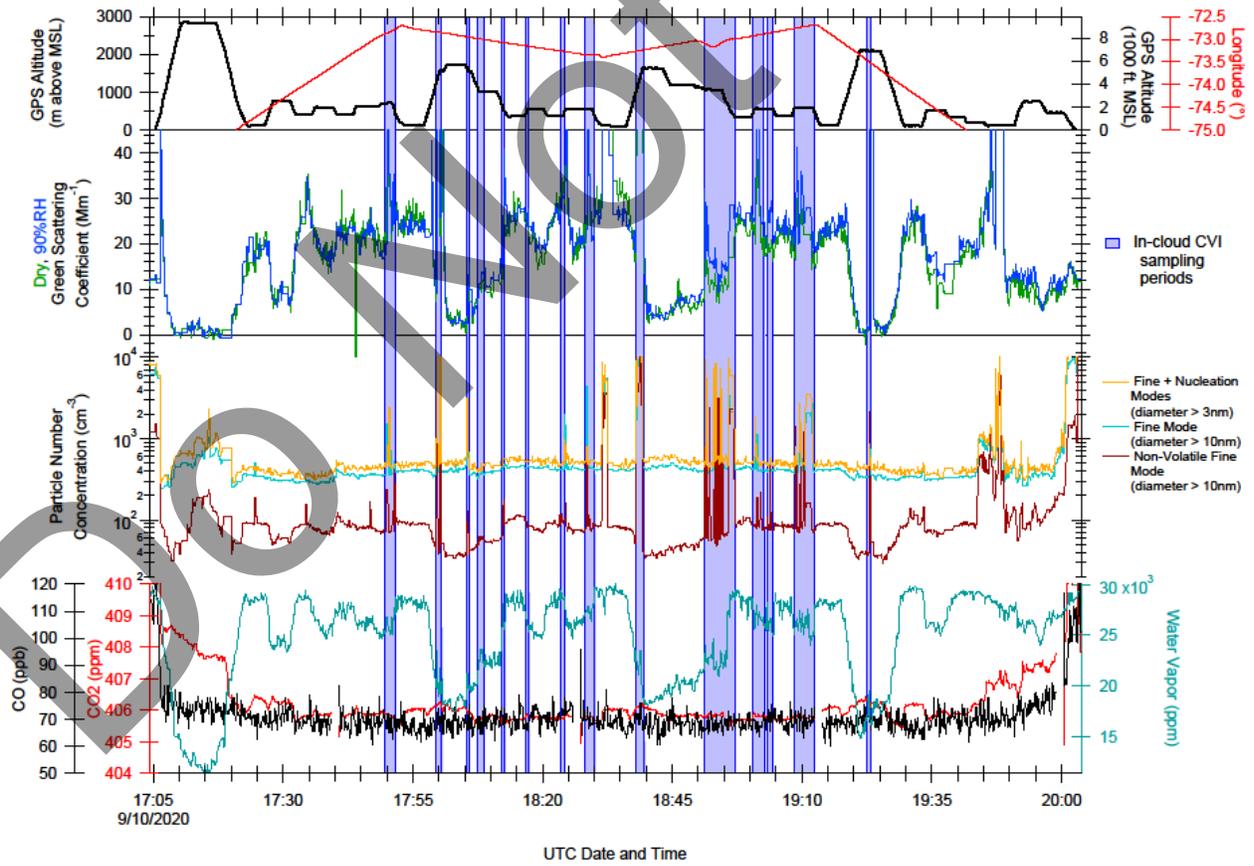
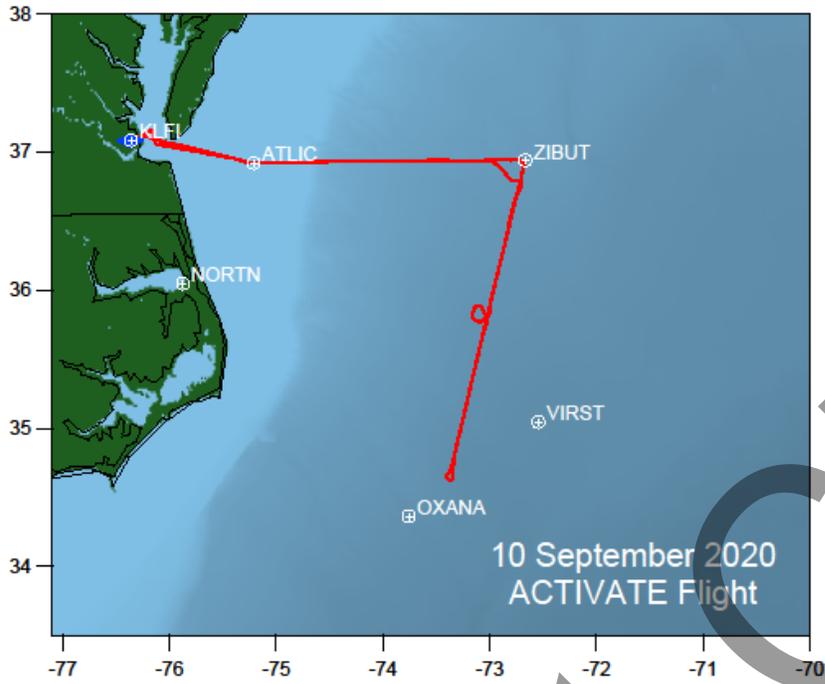
King Air

Flew the mission as briefed without any issue
4 dropsondes

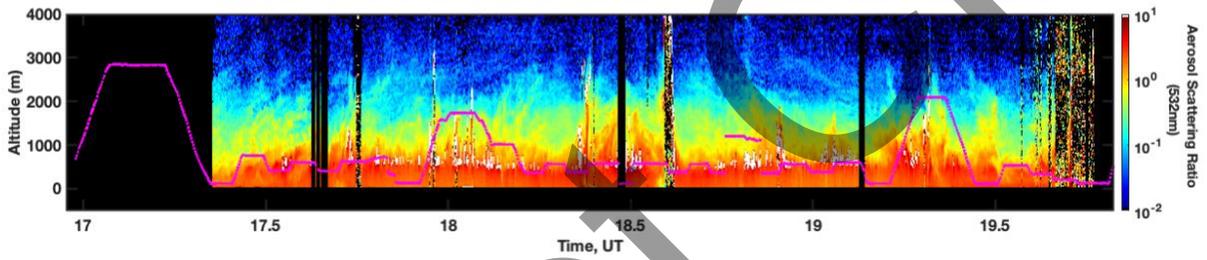
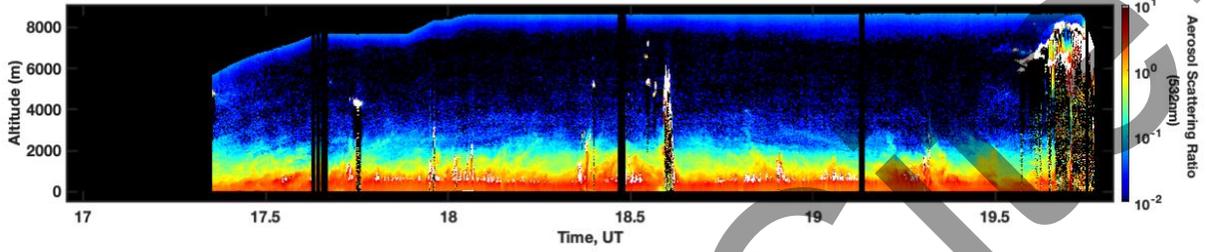
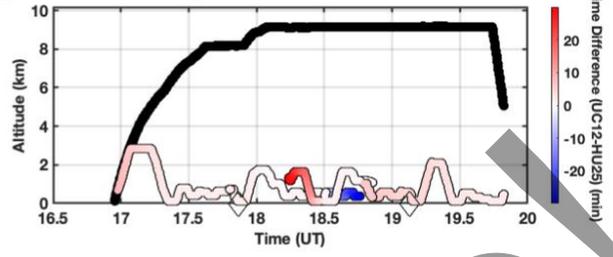
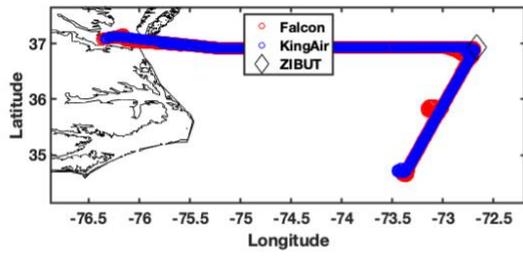
Falcon

Flights said flight was successful
Nephys continued to have problems with RH-control
Much cleaner in aerosol and cloud number concentrations
It would have been an excellent day in fact for the Process Study Flight Plan we have been talking about for weeks but we didn't do it due to the high uncertainty with bad weather back home and not being able to fly 'overgross' due to a wet runway.

Rich Moore Quicklook Images:



20200910 - ACTIVATE - KingAir and Falcon flight tracks

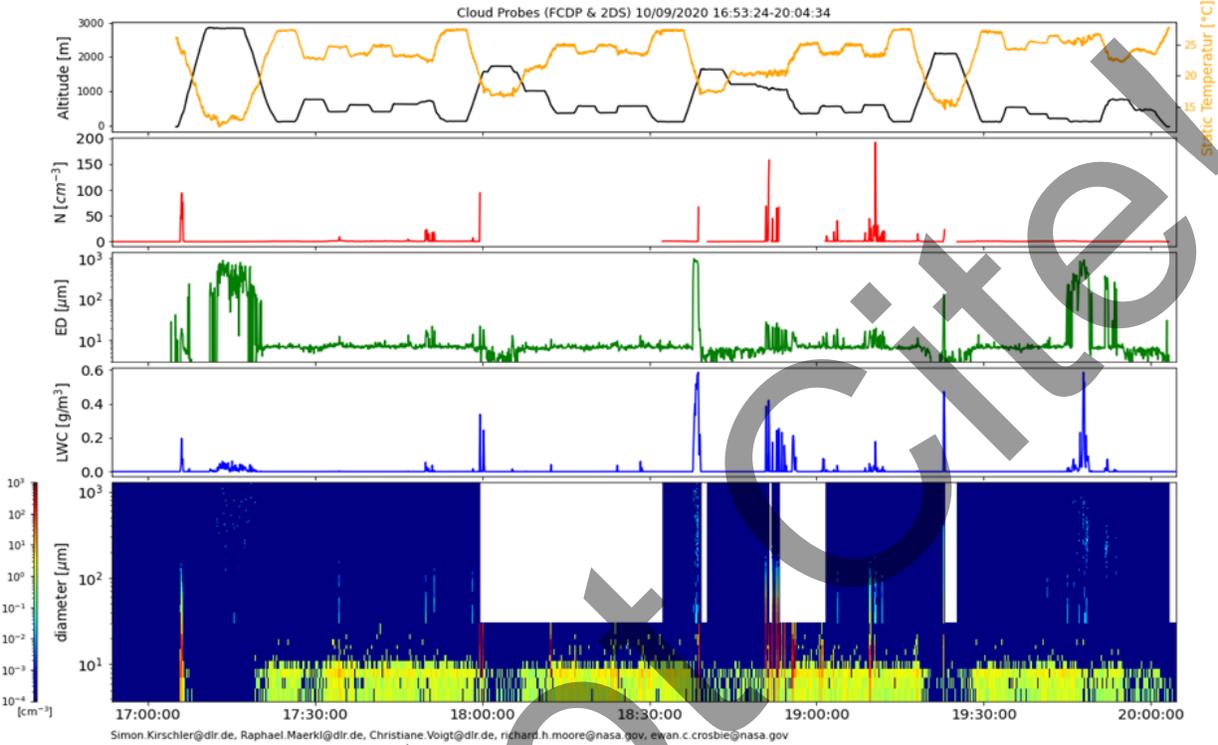


DO NOT

Quicklook ACTIVATE Cloud Probes (FCDP & 2DS)

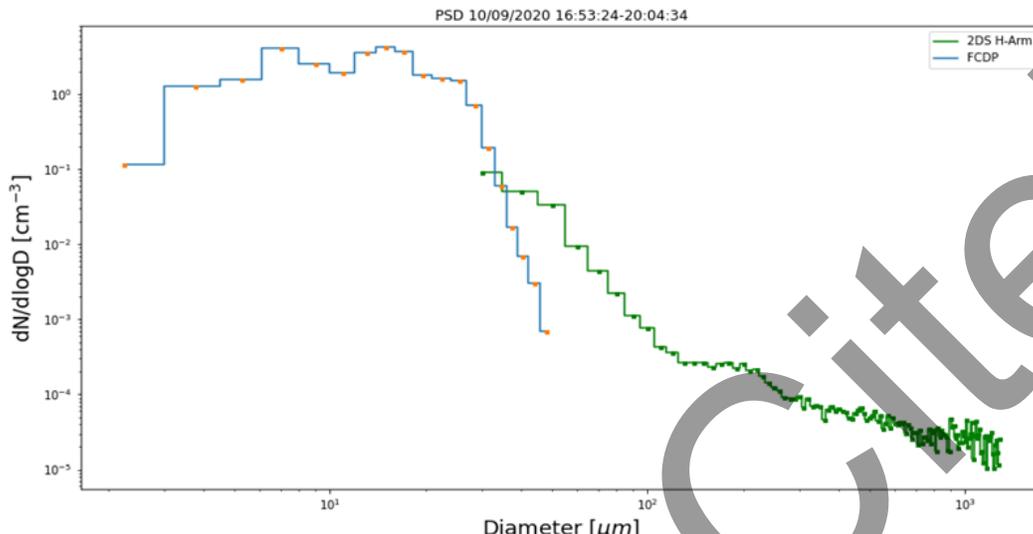
preliminary data, only for quicklook use

Simon Kirschler, Raphael Märkl, Christiane Voigt, Richard Moore, Ewan Crosbie



PSD ACTIVATE

preliminary data, only for quicklook use
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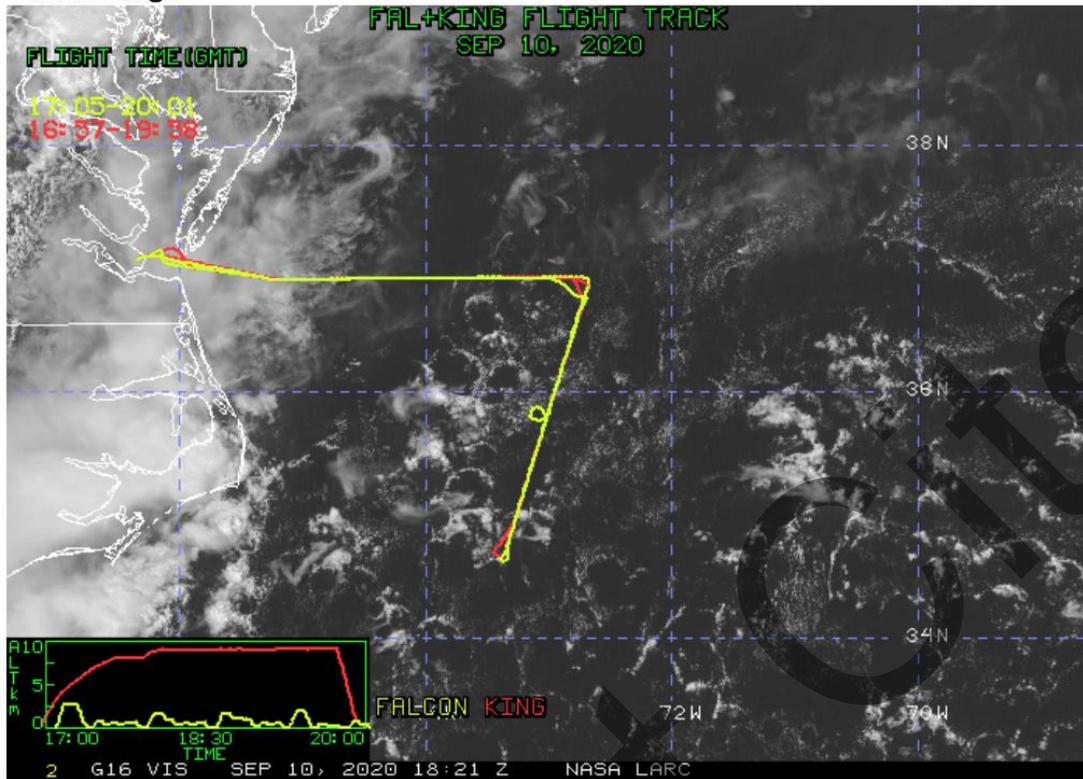


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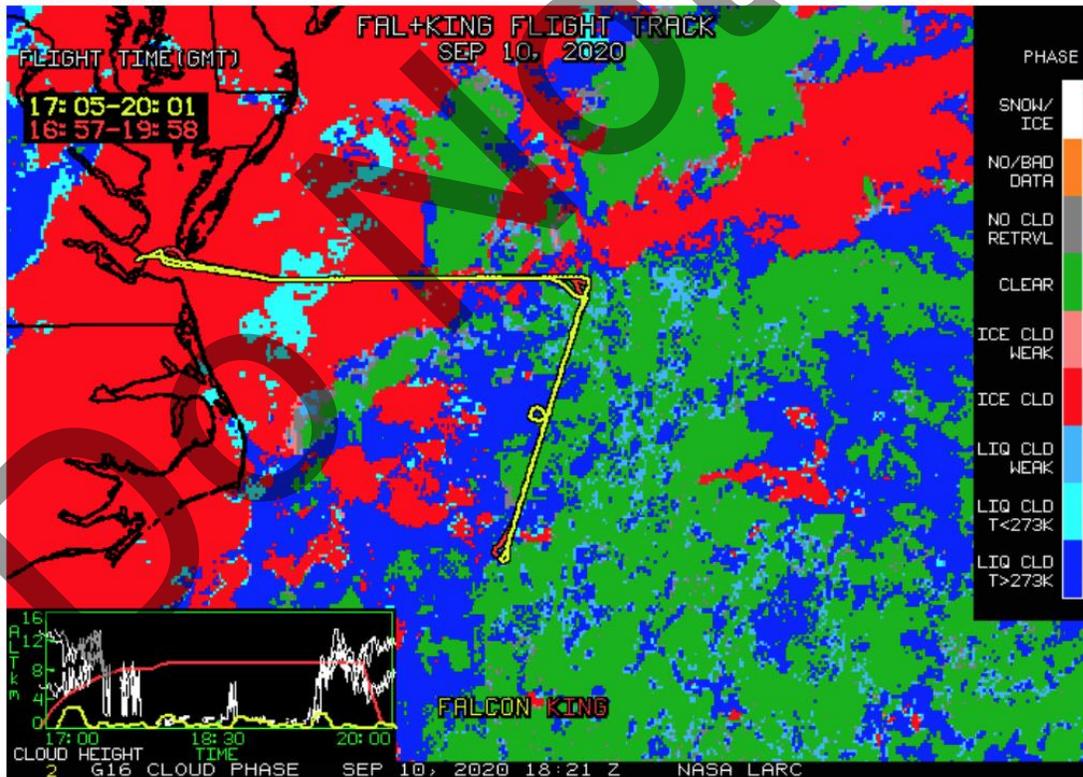


NASA-LaRC Clouds Group GOES-16 Quicklook Images for Flight 32, 1821 UTC Sep 10, 2020

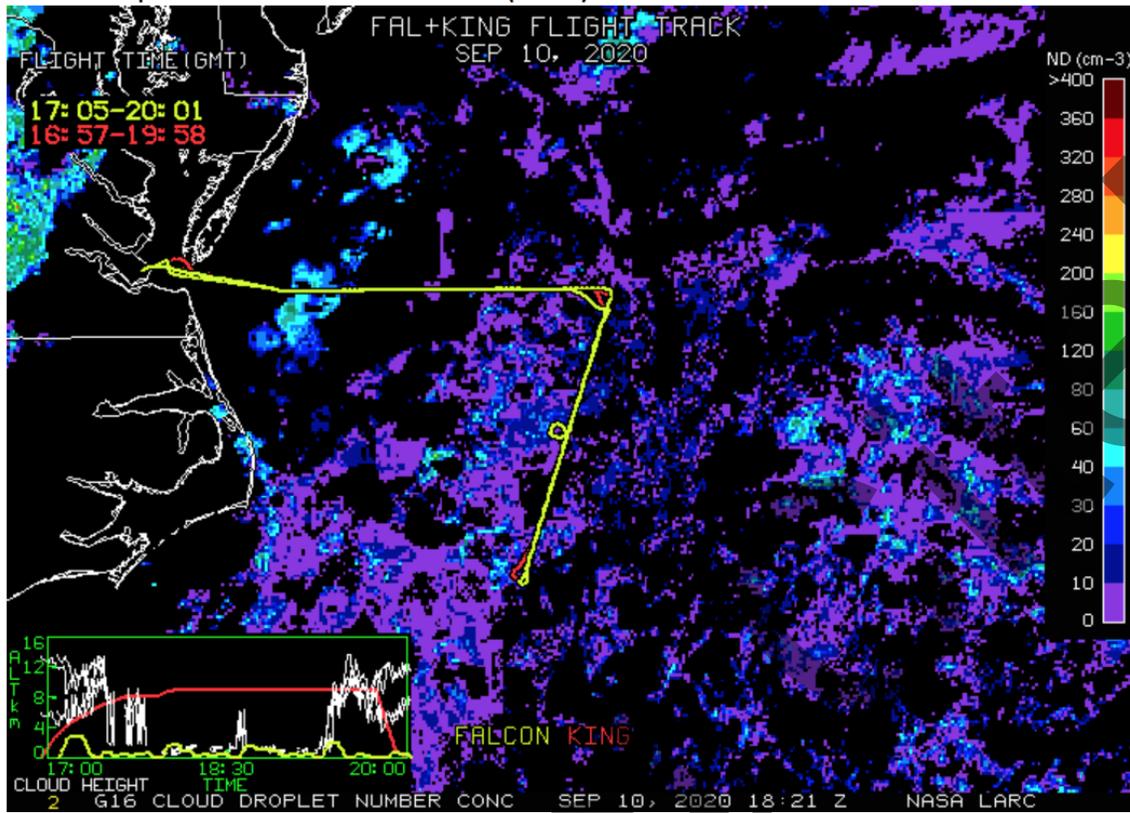
Visible Image



Cloud Phase



Cloud Droplet Number Concentration (cm-3)



Cloud-Top Height (Kft-ASL)

